

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6 0 5 0 0 1	Manifest Document No. 05001	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206) 382-8379				B. State Generator's ID		
5. Transporter 1 Company Name Philby Transport & Remediation, Inc.		6. US EPA ID Number CA 0063547996		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-602-252-1180		
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85353-4025		10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 800-972-1955		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a.	RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III			002	C F	02545 P F006
b.	RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III			050	D M	34759 P D007
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") (Emergency call pager # 206-648-8423) Wear gloves & goggles P.O.# M 95122						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Gerald Thompson				Signature [Signature]		Month Day Year 01/11/2005
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Shannon Wain				Signature [Signature]		Month Day Year 01/11/2005
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Armando Chavez				Signature Armando Chavez		Month Day Year 10/11/2005



WORLD RESOURCES
11:17AM 01/17/2005
GROSS 1050 lb
TARE 77 lb
NET 973 lb

WORLD RESOURCES
11:18AM 01/17/2005
GROSS 1484 lb
TARE 77 lb
NET 1407 lb
ACCUM 2380 lb
01/17/2005 11:19AM

1.19
Tons

2CF-F006

WORLD RESOURCES
09:45AM 01/17/2005
GROSS 420 lb
TARE 52 lb
NET 368 lb

WORLD RESOURCES
09:47AM 01/17/2005
GROSS 577 lb
TARE 52 lb
NET 525 lb

WORLD RESOURCES
09:48AM 01/17/2005
GROSS 457 lb
TARE 52 lb
NET 405 lb

WORLD RESOURCES
09:50AM 01/17/2005
GROSS 835 lb
TARE 52 lb
NET 783 lb

WORLD RESOURCES
09:51AM 01/17/2005
GROSS 398 lb
TARE 52 lb
NET 346 lb

WORLD RESOURCES
09:52AM 01/17/2005
GROSS 869 lb
TARE 52 lb
NET 817 lb

WORLD RESOURCES
09:54AM 01/17/2005
GROSS 391 lb
TARE 52 lb
NET 339 lb

WORLD RESOURCES
09:55AM 01/17/2005
GROSS 863 lb
TARE 52 lb
NET 811 lb

WORLD RESOURCES
09:56AM 01/17/2005
GROSS 373 lb
TARE 52 lb
NET 321 lb

WORLD RESOURCES
09:59AM 01/17/2005
GROSS 871 lb
TARE 52 lb
NET 819 lb

WORLD RESOURCES
10:03AM 01/17/2005
GROSS 936 lb
TARE 52 lb
NET 884 lb

WORLD RESOURCES
10:05AM 01/17/2005
GROSS 395 lb
TARE 52 lb
NET 343 lb

WORLD RESOURCES
10:06AM 01/17/2005
GROSS 892 lb
TARE 52 lb

10:08AM 01/17/2005

GROSS 734 lb

TARE 52 lb

NET 682 lb

WORLD RESOURCES

10:09AM 01/17/2005

GROSS 882 lb

TARE 52 lb

NET 830 lb

WORLD RESOURCES

10:11AM 01/17/2005

GROSS 368 lb

TARE 52 lb

NET 316 lb

WORLD RESOURCES

10:13AM 01/17/2005

GROSS 816 lb

TARE 52 lb

NET 764 lb

WORLD RESOURCES

10:14AM 01/17/2005

GROSS 984 lb

TARE 52 lb

NET 932 lb

WORLD RESOURCES

10:16AM 01/17/2005

GROSS 900 lb

TARE 52 lb

NET 848 lb

WORLD RESOURCES

10:17AM 01/17/2005

GROSS 988 lb

TARE 52 lb

NET 936 lb

WORLD RESOURCES

10:19AM 01/17/2005

GROSS 855 lb

TARE 52 lb

NET 803 lb

WORLD RESOURCES

10:21AM 01/17/2005

GROSS 899 lb

TARE 52 lb

NET 847 lb

WORLD RESOURCES

10:23AM 01/17/2005

GROSS 962 lb

TARE 52 lb

NET 910 lb

WORLD RESOURCES

10:25AM 01/17/2005

GROSS 910 lb

TARE 52 lb

NET 858 lb

WORLD RESOURCES

10:27AM 01/17/2005

GROSS 916 lb

TARE 52 lb

NET 864 lb

WORLD RESOURCES

10:29AM 01/17/2005

GROSS 946 lb

TARE 52 lb

NET 894 lb

WORLD RESOURCES

10:31AM 01/17/2005

NET	855 lb
WORLD RESOURCES	
10:33AM 01/17/2005	
GROSS	373 lb
TARE	52 lb
NET	321 lb
WORLD RESOURCES	
10:35AM 01/17/2005	
GROSS	347 lb
TARE	52 lb
NET	315 lb
WORLD RESOURCES	
10:36AM 01/17/2005	
GROSS	950 lb
TARE	52 lb
NET	898 lb
WORLD RESOURCES	
10:37AM 01/17/2005	
GROSS	352 lb
TARE	52 lb
NET	300 lb
WORLD RESOURCES	
10:39AM 01/17/2005	
GROSS	388 lb
TARE	52 lb
NET	336 lb
WORLD RESOURCES	
10:42AM 01/17/2005	
GROSS	961 lb
TARE	52 lb
NET	909 lb
WORLD RESOURCES	
10:44AM 01/17/2005	
GROSS	942 lb
TARE	52 lb
NET	890 lb
WORLD RESOURCES	
10:46AM 01/17/2005	
GROSS	940 lb
TARE	52 lb
NET	878 lb
WORLD RESOURCES	
10:48AM 01/17/2005	
GROSS	846 lb
TARE	52 lb
NET	794 lb
WORLD RESOURCES	
10:49AM 01/17/2005	
GROSS	345 lb
TARE	52 lb
NET	293 lb
WORLD RESOURCES	
10:52AM 01/17/2005	
GROSS	369 lb
TARE	52 lb
NET	317 lb
WORLD RESOURCES	
10:58AM 01/17/2005	
GROSS	777 lb
TARE	52 lb
NET	725 lb
WORLD RESOURCES	
10:59AM 01/17/2005	
GROSS	269 lb
TARE	52 lb

NET 217 lb
WORLD RESOURCES
11:00AM 01/17/2005
GROSS 512 lb
TARE 52 lb
NET 460 lb
WORLD RESOURCES
11:02AM 01/17/2005
GROSS 330 lb
TARE 52 lb
NET 278 lb
WORLD RESOURCES
11:03AM 01/17/2005
GROSS 390 lb
TARE 52 lb
NET 338 lb
WORLD RESOURCES
11:05AM 01/17/2005
GROSS 521 lb
TARE 52 lb
NET 469 lb
WORLD RESOURCES
11:07AM 01/17/2005
GROSS 529 lb
TARE 52 lb
NET 477 lb
WORLD RESOURCES
11:08AM 01/17/2005
GROSS 768 lb
TARE 52 lb
NET 716 lb
WORLD RESOURCES
11:09AM 01/17/2005
GROSS 423 lb
TARE 52 lb
NET 371 lb
WORLD RESOURCES
11:11AM 01/17/2005
GROSS 901 lb
TARE 52 lb
NET 849 lb
WORLD RESOURCES
11:12AM 01/17/2005
GROSS 836 lb
TARE 52 lb
NET 784 lb
WORLD RESOURCES
11:14AM 01/17/2005
GROSS 860 lb
TARE 52 lb
NET 808 lb
ACCUM 31684 lb
01/17/2005 11:15AM

15.84
Tons
50 DM - D007

TARE 52 lb

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6 0 5 0 0 1	Manifest Document No. 05001	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124				A. State Manifest Document Number	
4. Generator's Phone (206) 382-8379				B. State Generator's ID	
5. Transporter 1 Company Name Philip Transport & Foundation, Inc		6. US EPA ID Number CA0063547996		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-602-222-1156	
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85363-4026		10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone 800-972-1956	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol
a. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III		No. Type 002 CF		02545	P
b. <input type="checkbox"/> RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III		050 DM		34759	P
c. <input type="checkbox"/>					
d. <input type="checkbox"/>					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
<p>15. Special Handling Instructions and Additional Information</p> <p>24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORE") (Emergency call pager # 206-648-8423) Wear gloves & goggles P.O. # M 95122</p> <p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>					
Printed/Typed Name GREGORY Thompson		Signature [Signature]		Month Day Year 01/11/05	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name SHAWN LAM		Signature [Signature]	
				Month Day Year 01/11/05	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

GENERATOR COPY

PRINTED ON RECYCLED PAPER
USING SOYBEAN INK

AKC-0016840



WORLD RESOURCES
COMPANY

In partnership with the environment

LAND DISPOSAL
RESTRICTION NOTICE



ISO 9001:2000 & 14001 Certified Recycling Facility

F006

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To:	WORLD RESOURCES COMPANY	8113 West Sherman Street, Tolleson AZ 85353-4025
From:	COMPANY NAME: Alaskan Copper Works	COMPANY ADDRESS: P.O. Box 3546, Seattle, WA 98124
MANIFEST NUMBER:	<i>DS001</i>	DATE OF SHIPMENT: <i>1-12-05</i>

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

SIGNATURE:	<i>[Signature]</i>	TITLE:	<i>Enviro. Asst.</i>
NAME PRINTED:	<i>Gregory Thompson</i>	DATE:	<i>01-12-05</i>

Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN *includes* the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does *not* include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then *no additional entry* is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) *must* be added to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

AZF0101\VF1 ©1994 by WORLD RESOURCES COMPANY. All rights reserved. Revised 11/08/98, 08/16/00. This Revision: 08/01/01.

F006 GENERATORS

AKC-0016841

Material Safety Data Sheet

MSDS ID # AZ-10-A

F006 Recyclable Material (Filter Cake)

Recycler:

World Resources Company

8113 West Sherman Street

Tolleson, Arizona 85353-4025

Tel: 602-233-9166 Fax: 623-936-9164

January 2004 DLS

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night,

Call: **CHEMTREC 800-424-9300**

Use CHEMTREC Company Code "WORR"

From other countries call: 703-527-3887

Section 1

Material Identification

EPA Waste Classification: F006**Generic Name:** Electroplating/Metal-Finishing Wastewater Treatment Sludge**Chemical****Family:** Metallic (Hydroxide) Precipitates**Synonym:** Non-ferrous Metal Hydroxide Filter Cake**DOT Shipping Name:** RQ, Hazardous waste solid, n.o.s. (F006)**DOT Hazard Class:** 9**DOT Packing Group:** III**DOT Identification Number:** NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

Section 2

Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	15.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	6.0 mg/m ³ (Dust)	LD-50 Not Determined

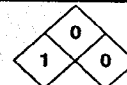
Section 3

Physical and Reactivity Data

Description: Solid, Clay-like, Gray/Green
to Brown, Moisture ~ 30 - 80%**Density:** 50 - 90 lbs/ft³**Incompatible Reactivity:** None Known**Specific Gravity:** 2.5 to 3.5**Vapor Pressure:** Insignificant**Solubility:** Insoluble in Water**Stability:** Avoid Contact with Acids**Boiling Point:** Above 2,600°C**Melting Point:** Above 1,800°C**pH:** 7.0 to 10.0 **Odor:** Nil**Polymerization:** Will Not Occur

Section 4

Fire and Explosion Data

Flashpoint: Nonflammable**Oxidation:** Non-oxidizing**Special Firefighting Procedures:** None**Explosive:** Non-explosive**Decomposition (Due to Fire or Explosion):** None**NFPA
Fire Diamond**

Section 5

Toxicity

Listed Carcinogen Components: Nickel**Toxicology:** See Sec. 2**Route of Entry:** Inhalation, Ingestion

Section 6

Health Effects and First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.**Ingestion:** Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.**Eyes:** Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.**Skin:** Dust may irritate skin with prolonged contact. Wash with soap and water.**Comments:** Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

Section 7

Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.**Storage:** Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.**Spills:** Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.**Eye Protection:** Safety glasses recommended.**Other Protective
Equipment:**

Coveralls are recommended, but not required.

Hand Protection: Gloves recommended.

Section 9

Generator's Verification

This MSDS describes the material listed in the attached Manifest #:

Company Name: Alaskan Copper Works**Company Address:** P.O. Box 3546, Seattle, WA 98124**Telephone:** 206-382-8379**Date:** 01-12-05**Signature:**

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn, but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W00R").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam

Large Fires:

1. Water spray, fog or regular foam
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Material Safety Data Sheet

D007 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street
Tolleson, Arizona 85353-4025
Tel.: 602/233-9166 Fax: 623/936-9164

January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: CHEMTREC 800/424-9300.

(Use CHEMTREC Company Code "WORR")
For calls from other countries, call COLLECT: 703/527-3887.

Section 1

EPA Waste Classification: D007

Generic Name: Chromium-Bearing Filter Cake

Chemical Family: Metallic (Hydroxide) Participates

Synonym: Nonferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (D007)

DOT Hazard Class: 9; **Packing Group:** III.

DOT Identification Number: NA 3077

Guide 171 of *The North American Emergency Response Guidebook* applies.

Material Identification

Section 2

Hazardous Ingredients

Ingredient:	CAS Number:	Content%:	ACGIH-TLV:	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0-30	1.0 mg(Cu)/m ³ (dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg(Ni)/m ³ (dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg(Ca)/m ³ (dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0-10	10.0 mg/m ³ (dust)	LD-50 not determined
Chromic Hydroxide	1308-58-1	1-20	0.05 mg(Cr)/m ³ (dust)	LD-50 not determined

Section 3

Physical and Reactivity Data

Description: solid, clay-like, gray/green to brown, water content 30-80%

Specific Gravity: 2.5 to 3.5

Solubility: insoluble in water.

Incompatible Reactivity: none known.

Vapor Pressure: insignificant.

Stability: avoid contact with acids.

Polymerization: will not occur.

Density: 50-90 lbs./cu ft.

Boiling Point: above 2600°C

Melting Point: above 1800°C

pH: 7.0 to 10.0

Odor: nil.

Section 4

Fire and Explosion Data

Flashpoint: nonflammable.

Special Firefighting Procedures: none.

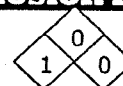
Product Decomposition (due to fire or explosion): none.

Oxidation: non-oxidizing.

Explosion Potential: non-explosive.

NFPA

Fire Diamond



Section 5

Toxicity

Listed Carcinogenic Components: nickel, chromium

Toxicology: see Section 2.

Route of Entry: inhalation and ingestion.

Section 6

Health Effects and First Aid

- Inhalation:** Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
- Ingestion:** Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person.
- Eyes:** Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.
- Skin:** Dust may irritate skin, causing forms of eczema. Wash with soap and water.
- Long-Term:** Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.
- Comments:** Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage, mental-sensitive skin, or skin lesions.

Section 7

Precautions for Safe Handling

- Handling:** Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves.
- Storage:** Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow.
- Spills:** Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to World Resources Company at the address shown above.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended.
Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached Manifest Number:

05001

↑Signature↑

01-12-05

↑Date↑

Alaskan Copper Works
P.O. Box 3546, Seattle, WA 98124

↑Company Name and Address↑

206-382-8379

↑Telephone↑

**WORLD RESOURCES COMPANY**

ARIZONA RECYCLING FACILITY

*In partnership with the environment***LDRN**
LAND DISPOSAL RESTRICTION
NOTICE

ISO 14001 Certified Recycling Facility

D007

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To: **WORLD RESOURCES COMPANY****8113 West Sherman Street, Tolleson AZ 85353-4025**From: **COMPANY NAME:****Alaskan Copper Works****COMPANY ADDRESS:****P.O. Box 3546, Seattle, WA 98124**✓ **MANIFEST**
NUMBER:**05021****DATE OF**
SHIPMENT:**01-12-05**

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	non-wastewater	40 CFR §268.40

SIGNATURE:**TITLE:****Enviro. Asst****NAME PRINTED:****GERARD Thompson****DATE:****1-12-05****Instructions****for the Completion of this**
Land Disposal Restriction Notice
(D007 LDRN)

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

D007 GENERATORS

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn, but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

EMERGENCY RESPONSE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam.

Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.